

PATENT APPLICATION  
Attorney's Do. No. 9907-003  
Client Doc. No. P2003/50019/US

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent application of: Taeghwan HYEON and Sangjin HAN

Serial No. 10/658,586 Art Unit. 2879

Filed: September 8, 2003 Examiner: Jeevon Jones

Title: NANOSTRUCTURED CARBON MATERIALS HAVING  
EXCELLENT CRYSTALLINITY AND LARGE SURFACE  
AREA SUITABLE FOR FUEL CELL ELECTRODES AND  
METHOD FOR SYNTHESIZING THE SAME

Confirmation No.: 1934

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**REQUEST FOR CORRECTION OF FILING RECEIPT AND RECORDED  
ASSIGNMENT**

Enclosed are copies of the Updated Filing Receipt and Assignment for the above-identified application with applicant errors highlighted in yellow and corrected thereon in red. The inventor's signature shows the correct spelling of the inventor's name as Taeghwan Hyeon.

The official updated Filing Receipt mailed 03/23/04 (Exhibit A) for the above-identified application shows errors highlighted in yellow and corrected thereon in red.

The Notice of Recordation of Assignment (Exhibit B) for the above-identified application also shows errors highlighted in yellow and corrected thereon in red with the correct spelling of the inventor's name as Taeghwan Hyeon.

Applicant requests correction of the Filing Receipt and Recorded Assignment to correct the spelling of the inventor's name.

Respectfully submitted,

MARGER JOHNSON & McCOLLOM, P.C.

Hosoon Lee  
Limited Recognition Under 37 CFR 10.9(b)

MARGER JOHNSON & McCOLLOM, P.C.  
1030 SW Morrison Street  
Portland, OR 97205  
(503) 222-3613

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Box 1450, Alexandria, VA 22313-1450  
Date: April 18, 2005

  
Natasha French



## UNITED STATES PATENT AND TRADEMARK OFFICE

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APR 20 2005

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FILE FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/658,586	09/08/2003	2879	450	9907-003	8	13	3

CONFIRMATION NO. 1934

## UPDATED FILING RECEIPT



\*OC000000012165663\*

20575  
MARGER JOHNSON & MCCOLLOM PC  
1030 SW MORRISON STREET  
PORTLAND, OR 97205

Date Mailed: 03/23/2004



Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).**

## Applicant(s)

Taeghwan

Taegwhan Hyeon, Seoul, KOREA, REPUBLIC OF;  
Sangjin Han, Seoul, KOREA, REPUBLIC OF;

## Assignment For Published Patent Application

Seoul National University, Seoul, KOREA, REPUBLIC OF;

## Domestic Priority data as claimed by applicant

## Foreign Applications

REPUBLIC OF KOREA PCT/KR03/01377 07/10/2003

If Required, Foreign Filing License Granted: 11/28/2003

Projected Publication Date: 01/13/2005

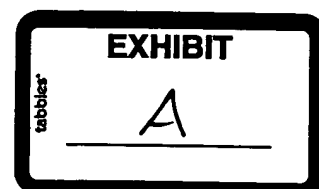
Non-Publication Request: No

Early Publication Request: No

\*\* SMALL ENTITY \*\*

## Title

Nanostructured carbon materials having excellent crystallinity and large surface area suitable for



fuel cell electrodes and method for synthesizing the same

**Preliminary Class**

313

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**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

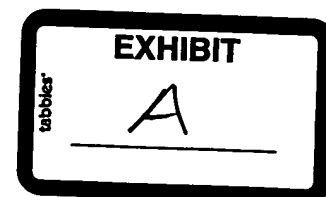
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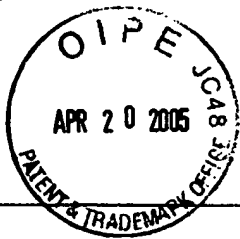
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**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).





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UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 05, 2004

PTAS

MARGER JOHNSON & MCCOLLOM, P.C.  
HOSOOON LEE  
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\*102664649A\*



UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/02/2004

REEL/FRAME: 014948/0702

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HYEON, TAEGWHAN *Taeghwan*

DOC DATE: 01/28/2001

ASSIGNOR:

HAN, SANGJIN

DOC DATE: 01/28/2004

ASSIGNEE:

SEOUL NATIONAL UNIVERSITY  
SAN 56-1, SHILLIM-DONG, KWANAK-GU  
SEOUL, REPUBLIC OF KOREA 151-744

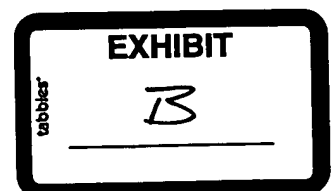
SERIAL NUMBER: 10658586

FILING DATE: 09/08/2003

PATENT NUMBER:

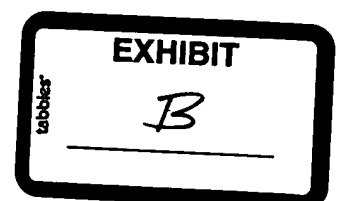
ISSUE DATE:

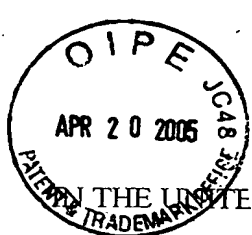
TITLE: NANOSTRUCTURED CARBON MATERIALS HAVING EXCELLENT CRYSTALLINITY AND LARGE SURFACE AREA SUITABLE FOR FUEL CELL ELECTRODES AND METHOD FOR SYNTHESIZING THE SAME



014948/0702 PAGE 2

JEEVON JONES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS





02-09-2004



102664649

PATENT APPLICATION  
Attorney's Doc. No. 9907-003

ARK OFFICE

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Alexandria, VA 22313-1450

2/2/04

Please record the attached original document or copy thereof and return the recorded instrument to the undersigned.

1. Name of party(ies) conveying an interest: (1) *Taeghwan* HYEON  
(2) Sangjin HAN
2. Name and address of party(ies) receiving an interest: SEOUL NATIONAL UNIVERSITY  
San 56-1, Shillim-dong, Kwanak-gu,  
Seoul 151-744, Republic of Korea
3. Description of the interest conveyed: ☒ Assignment  
Date of execution of attached document: January 28, 2004
4. Application number(s) or patent number(s). Additional sheet attached? Yes \_\_\_ No X  
Patent Application No. 10/658,586 filed on September 8, 2003.
5. Name and address of party to whom correspondence concerning document should be mailed:  
MARGER JOHNSON & McCOLLOM, P.C.  
1030 S.W. Morrison Street  
Portland, Oregon 97205  
Telephone: (503) 222-3613
6. Number of applications and patents involved: 1
7. PTO Form 2038 authorizing credit card payment for \$490 which includes the \$40 to record the assignment is enclosed.
8. Any deficiency or overpayment should be charged or credited to deposit account number 13-1703.
9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

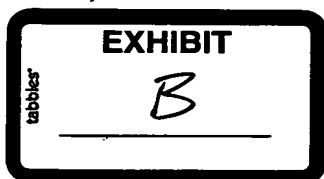
Dated: December 28, 2004

Respectfully submitted,  
MARGER JOHNSON & McCOLLOM, P.C.

Hosoon Lee

Limited Recognition Under 37 CFR § 10.9(b)

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Date: January 28, 2004

  
Ilka Dalton

Total number of pages comprising  
cover sheet and attached assignment: 3

Attorney's Do. No. 9907-3

ASSIGNMENT

**Assignor:** Taegwhan HYEON  
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Republic of Korea

**Assignee:** SEOUL NATIONAL UNIVERSITY  
**Address:** San 56-1, Shillim-dong, Kwanak-gu, Seoul 151-744  
Republic of Korea

**Title of  
Invention:** NANOSTRUCTURED CARBON MATERIALS HAVING  
EXCELLENT CRYSTALLINITY AND LARGE SURFACE AREA  
SUITABLE FOR FUEL CELL ELECTRODES AND METHOD FOR  
SYNTHESIZING THE SAME

International Application No. PCT/KR03/01377

International Filing Date: July 10, 2003

For good and valuable consideration, the receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to Assignee, the full and exclusive right, title and interest in and to the above-identified invention, patent application and patent rights throughout the world, including foreign patent priority rights; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by Assignee, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and covenant that Assignor has full right so to do, and agree that Assignor will communicate to Assignee, or its successors and assigns, any facts known to Assignor respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid Assignee, its

EXHIBIT

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successors and assigns to obtain and enforce proper patent protection for said invention  
in this or any foreign country.

Executed at \_\_\_\_\_, this \_\_\_\_\_ day of

January 23, 2004.

Taeghwan Hyeon Taeghwan  
Taegwhan HYEON  
Assignor

Executed at \_\_\_\_\_, this \_\_\_\_\_ day of

Jan 28, 2004.

Hansangjin  
Sangjin HAN  
Assignor

EXHIBIT

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